

CLAIMS

- 1 . A suction system comprising a suction pump (1) having at least one
5 suction connection (2,2',2'') and a delivery connection (3), a receiving reservoir
(4) connected to said delivery connection (3), connecting pipings from a suc-
tion connection (2,2') to a first space (7) from which a first fluid (8) should be
sucked, and connecting pipings from said delivery connection (3) to said re-
ceiving reservoir (4), characterized in that the system further comprises a con-
10 necting piping (14,15,16), extending from a second space (10) from which a
second fluid (11) should be sucked, to said at least one suction connection
(2,2',2'') of the pump (1), and comprises a device (12) disposed for causing an
intermittent operation of the second fluid suction by the pump (1), responsive
to the level reached by the fluid (11) in said second space (10).
- 15 2 . A suction system as set forth in Claim 1, characterized in that said
pump (1) is a vacuum pump, said first fluid (8) is air, said first space (7) is a
depressurized reservoir, said second fluid (11) is oil and said second space
(10) is a space wherein oil (11) has a tendency to accumulate.
- 20 3 . A suction system as set forth in Claim 1, characterized in that said
pump (1) being a part of the system is of the kind having two suction connec-
tions (2',2''), a first suction connection (2') of the pump (1) is connected to said
first space (7) for sucking therefrom said first fluid (8), and the second suction
connection (2'') of the pump (1) is connected to said second space (10) for
sucking therefrom said second fluid (11).
- 25 4 . A suction system as set forth in Claim 1, characterized in that said
device (12) disposed for causing an intermittent operation of the pump (1) in
sucking said second fluid (11) responsive to the level reached by a fluid (11) in
said second space (10) comprises a means (12',18, 19) for measuring the
level reached by said second fluid (11) in said second space (10), an intercep-
30 tion means (12'',12°,17) interposed in said connection (14,15,16) from said

second space (10) to said at least one suction connection (2,2") of the pump (1), and means (12,20) for activating said interception means (12) when said level of the second fluid (11) comes down a pre-established minimum level, and for inactivating said interception means (12) when said level of the second fluid (11) overcomes a pre-established maximum level.

5 . A suction system as set forth in Claim 4, characterized in that said connection (14,15) from said second space (11) to said at least one suction connection (2,2") of the pump (1) opens near the bottom of said second space (10), and inside said second space (10), in the bottom portion thereof, is installed a device (12) provided with a float (12'); which closes the opening of said connection (14,15,16), thus intercepting the suction of the second fluid (11) by the pump (1), when the float (12'), along with the second fluid (11), reaches the pre-established minimum level.

6 . A suction system as set forth in Claim 4, characterized in that said connection (14,15) can arrive to its opening near the bottom of said second space (10) either coming from below or coming from above and plunging into said second space (10).

7 . A suction system as set forth in Claim 4, characterized in that said means (18,19) for measuring the level reached by said second fluid (11) in said second space (10) comprises means (18,19) for revealing the level of said second fluid (11), installed in said second space (11) at different levels, said interception means (17) is interposed in said connection (16) outside said second space (11), and said means (20) for activating and inactivating said interception means (12) are controlled by said means (18,19) for revealing the level of said second fluid (11).

8 . A suction system as set forth in Claim 4, characterized in that said interception means (17) is embodied by an electromagnetically controlled valve (electrovalve 17), intended for intermittently opening the passageway from said second space (11) to said pump (1).